

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 23, 2002, 19:05:37 ; Search time 1593 Seconds
(without alignments)
2956.960 Million cell updates/sec

Title: US-09-728-446-819
Perfect score: 349
Sequence: 1 tattatatgtaagtacnctg.....gnnttgccctttgaaggttg 349

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- EST:*
- 1: em_estba:*
 - 2: em_esthum:*
 - 3: em_estin:*
 - 4: em_estmu:*
 - 5: em_estov:*
 - 6: em_estpl:*
 - 7: em_estro:*
 - 8: em_htc:*
 - 9: gb_est1:*
 - 10: gb_est2:*
 - 11: gb_htc:*
 - 12: gb_gss:*
 - 13: em_gss_hum:*
 - 14: em_gss_inv:*
 - 15: em_gss_pln:*
 - 16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	166.8	47.8	931	10 BG404028	BG404028 602419909
2	159	45.6	753	10 BI217860	BI217860 602934835
3	151.4	43.4	455	10 BE374222	BE374222 601227776
4	151.4	43.4	464	9 AA822112	AA822112 vp25h07.r
5	151.4	43.4	476	10 BG099892	BG099892 uy13e04.y
6	151.4	43.4	516	9 AA239346	AA239346 my40h01.r
7	151.4	43.4	543	10 BE625196	BE625196 uu22e07.y
8	151.4	43.4	557	9 AA238931	AA238931 my36g11.r
9	151.4	43.4	573	9 AA153192	AA153192 ms62f10.r
10	151.4	43.4	600	10 BG801735	BG801735 0114-09 M
11	151.4	43.4	600	10 BG801778	BG801778 0114-88 M
12	151.4	43.4	601	9 AA238738	AA238738 my35h09.r
13	151.4	43.4	612	9 AW742453	AW742453 up57cl2.y
14	151.4	43.4	615	9 AW742230	AW742230 up54a09.y
15	151.4	43.4	616	10 BI683665	BI683665 603306204
16	151.4	43.4	617	10 BE375516	BE375516 601225402
17	151.4	43.4	618	9 AI789325	AI789325 uk53g07.y

18	151.4	43.4	634	10 BG965994	BG965994 602829788
19	151.4	43.4	637	10 BG311676	BG311676 lb27g07.y
20	151.4	43.4	645	9 BB655642	BB655642 BB655642
21	151.4	43.4	702	10 BI684284	BI684284 603308113
22	151.4	43.4	712	10 BE306588	BE306588 601102908
23	151.4	43.4	729	10 BI853406	BI853406 603379995
24	151.4	43.4	739	10 BF144980	BF144980 601790276
25	151.4	43.4	742	10 BI683807	BI683807 603306188
26	151.4	43.4	753	10 BE915228	BE915228 601666591
27	151.4	43.4	764	10 BI557907	BI557907 603237515
28	151.4	43.4	776	10 BI151335	BI151335 602917318
29	151.4	43.4	778	10 BI656239	BI656239 603283026
30	151.4	43.4	794	10 BI688334	BI688334 603316656
31	151.4	43.4	810	10 BI328365	BI328365 602985691
32	151.4	43.4	827	10 BI330726	BI330726 602982686
33	151.4	43.4	851	10 BI662371	BI662371 603305935
34	151.4	43.4	861	10 BG863754	BG863754 602796739
35	151.4	43.4	861	10 BI687916	BI687916 603314064
36	151.4	43.4	926	10 BI730403	BI730403 603350714
37	151.4	43.4	931	10 BI651607	BI651607 603298088
38	151.4	43.4	952	10 W44018	W44018 mc72a11.r1
39	151.4	43.4	991	10 BG172725	BG172725 602337151
40	151.4	43.4	1099	10 BM460904	BM460904 AGENCOURT
41	151.4	43.4	1121	10 BI695068	BI695068 603345394
42	151.4	43.4	1141	10 BM461299	BM461299 AGENCOURT
43	151.4	43.4	1367	11 AK002296	AK002296 Mus muscu
44	151	43.3	922	10 BF100565	BF100565 601753871
45	149.8	42.9	524	9 AA423666	AA423666 ve77c09.r

ALIGNMENTS

RESULT 1
BG404028
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

BG404028
602419909F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4526859 5',
mRNA sequence.
BG404028
BG404028.1 GI:13297476
EST.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 931)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov

FEATURES
source

1. .931
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:4526859"
/clone_lib="NIH_MGC_94"
/tissue_type="retina"
/lab_host="DH10B (phage-resistant)"
/note="Organ: eye; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally; oligo-dr primed.
Average insert size 3.3 kb. Library enriched for
full-length clones and constructed by Life technologies.
Note: this is a NIH_MGC Library."

CDNA Library Preparation: The Cepko Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: LLAM10435 row: a column: 04
High quality sequence stop: 642.
Location/Qualifiers

BASE COUNT		271 a	193 c	251 g	216 t		
ORIGIN							
Query Match		47.8%;		Score 166.8;		DB 10; Length 931;	
Best Local Similarity		74.7%;		Pred. No. 3.4e-39;			
Matches		215; Conservative	0; Mismatches	70; Indels	3; Gaps	2;	
QY	62	TTGTGGGNGGCTANAGNCCNCAATATCATGGCTGCNACTATGGGCTCACCTTCACCCANA	121				
Db	220	TTCAGGCAACCTAAAGACCAAAATATAAGGGTCTGCAACTATGGGCTCACCTTCACCCAAA	279				
QY	122	NGGGAGTACNGACGGTACTCTTGGGACAGACCTTTTGTGNGAGAATNTGCATGGCTGAN	181				
Db	280	AGTGAATACAGACAATACTCTTGGGACAGAAATCTCTTGGGAGAATAAG-TTGGCTGAA	338				
QY	182	GGGTNAAACTGACTCTCGATACCATATTTNTACCATNCNCTCCNATCCCTTTTAGTGCCA	241				
Db	339	GGGTGAAACTGACTCTTGATACCATATTTGTACCAAAACACAGGAA--AGAAGAGTGGGA	396				
QY	242	TTTCCCGGCCTCCTATTGCCNGNATTGNTNNANTCTCGGCAGTAATGTTGATNTNNATT	301				
Db	397	AATTAAGGCTCCTATAGACGGGATTGTTTTAGTCTCGGCAGTAATGTTGATATAGATT	456				
QY	302	TTTCTGGACCGACCATCTATGGCTGTCTGNNTTGGCCTTTGAAGGTTG	349				
Db	457	TTTCTGGACCGACCATCTATGGCTGGGCTGTGTGGCCTTTGAAGGTTG	504				
RESULT 2							
BI217860							
LOCUS		BI217860	753 bp	mrna	linear	EST 11-JUL-2001	
DEFINITION		602934835F1 NCI_CGAP_Li9 Mus musculus cdna clone IMAGE:5097992 5',					
		mRNA sequence.					
ACCESSION		BI217860					
VERSION		BI217860.1 GI:14671304					
KEYWORDS		EST.					
SOURCE		house mouse.					
ORGANISM		Mus musculus					
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.					
AUTHORS		1 (bases 1 to 753)					
TITLE		NIH-MGC http://mgc.nci.nih.gov/.					
JOURNAL		National Institutes of Health, Mammalian Gene Collection (MGC)					
COMMENT		Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: Jeffrey E. Green, M.D. cdna Library Preparation: Life Technologies, Inc. cdna Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLAM1235 row: f column: 09 High quality sequence stop: 749.					
FEATURES		source					
		1. .753 /organism="Mus musculus" /strain="FVB/N" /db_xref="taxon:10090" /clone="IMAGE:5097992" /clone_lib="NCI_CGAP_Li9" /lab_host="DH10B (T1 phage-resistant)" /note="Organ: liver; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt. Average insert size 1.9 kb. Constructed by Life Technologies. Note: this is a NCI_CGAP Library."					
BASE COUNT		209 a	156 c	192 g	196 t		
ORIGIN							
Query Match		45.6%;		Score 159;		DB 10; Length 753;	
Best Local Similarity		76.8%;		Pred. No. 6.7e-37;			
Matches		202; Conservative	0; Mismatches	59; Indels	2; Gaps	2;	

QY	88	ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGNGGAGTACNGACGGTACTCTTTGGG	147
Db	248	AAGGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGAATACAGACAATACTCTTTGGG	307
QY	148	ACAGACCTTTTGTGAGAAATNTGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT	207
Db	308	ACAGAAATCTCTTTGGGAGAATAAG-TTGGCTGAAGGGTTGAAACTGACTCTTGATACCAT	366
QY	208	ATTNTACCATNCNCTCCNATCCCTTTTAGTGCCATTTTCCCGGCCCTCCTATTGCCNGAT	267
Db	367	ATTGTACCAAAACACAGGAACGAAGAGTGGGAAATCTAAAGGCCCTCCTATAGACGGGAT	426
QY	268	TGNTNNANTCTCGGCAGTAATGTTGATNTNNATTTTCTGGACCGACCATCTATGGCT-G	326
Db	427	TGTTTAGTCTCGGCAGTAATGTTGATATAGATTTTCTGGACCGACCATCTATGGCTGG	486
QY	327	TCTGNNTTGGCCTTTGAAGGTTG	349
Db	487	GCTGTGTGGCCTTTGAAGGTTG	509
RESULT 3			
BE374222			
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
FEATURES			
source			
1. .455			
/organism="Mus musculus"			
/strain="FVB/N"			
/db_xref="taxon:10090"			
/clone="IMAGE:3585858"			
/clone_lib="NCI_CGAP_Mam1"			
/tissue_type="tumor, biopsy sample"			
/dev_stage="10 months, virgin"			
/lab_host="DH10B"			
/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dt. Library constructed by Life Technologies. Investigator providing samples: Gilbert Smith, NIH"			
BASE COUNT			
ORIGIN			
Query Match			
Best Local Similarity			
Matches			
204; Conservative			
0; Mismatches			
55; Indels			
4; Gaps			
3;			
QY	88	ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGNGGAGTACNGACGGTACTCTTTGGG	147
Db	196	AAGGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGAATACAGACAATACTCTTTGGG	255

Library constructed and donated by J. McCarrey, Ph.D.
(Southwest Foundation for Biomedical Research, Dept. of
Genetics); excision done by E.M. Eddy, Ph.D. (National
Institutes of Health, National Institute of Environmental
Health Sciences). Original lambda-based library is
available through ATCC, catalog #63422."

BASE COUNT 143 a 88 c 117 g 128 t

Query Match 43.4%; Score 151.4; DB 10; Length 476;
Best Local Similarity 77.6%; Pred. No. 1.1e-34;
Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;

QY 88 ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGGAGTACNGACGGTACTCTTGGG 147

Db 178 AAGGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGGAAATACAGACAATACTCTTGGG 237

QY 148 ACAGACCTTTTNGAGAAATNTGCATGGCTGANGGGTTNAACTGACTCTCGATACCAT 207

Db 238 ACAGAAATCTCTTGGGAGAAATAAG-TTGGCTGAAGGGTTGAAACTGACTCTTGATACCAT 296

QY 208 ATTTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGGCTCCTATTGCCNGNAT 267

Db 297 ATTTGTACCAACACACAGGAA--AGAAGAGTGGGAAATTAAGGCTCCTATAGACGGGAT 354

QY 268 TGNTNNANTCTCGGCAGTAATGTTGATNTNNATTTTCTGGACCGACCATCTATGGCT-G 326

Db 355 TGTTTTAGTCTCGGCAGTAATGTTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 414

QY 327 TCTGNNTTGGCCTTTGAAGGTTG 349

Db 415 GCTGTGTTGGCCTTTGAAGGTTG 437

RESULT 6
AA239346 516 bp mRNA linear EST 03-MAR-1997
LOCUS my40h01.r1 Barstead mouse pooled organs MPLRB4 Mus musculus cDNA
DEFINITION clone IMAGE:698353 5' similar to TR:G1098621 G1098621 VOLTAGE
DEPENDENT ANION CHANNEL 3. ;, mRNA sequence.

ACCESSION AA239346
VERSION AA239346.1 GI:1863369
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 516)
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.

TITLE The WashU-HMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810

Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:431913

Possible reversed clone: similarity on wrong strand
Seq primer: -28m13 rev2 ET from Amersham
High quality sequence stop: 411.

FEATURES
source Location/Qualifiers
1. .516
/organism="Mus musculus"
/strain="FVB/N"
/db_xref="taxon:10090"

/clone="IMAGE:698353"
/clone_lib="Barstead mouse pooled organs MPLRB4"
/sex="mixed"
/tissue_type="pooled organs"
/dev_stage="7 day"
/lab_host="DH10B"
/note="Organ: pooled; Vector: pF7T3D-Pac (Pharmacia) with
a modified polylinker; Site_1: EcoRI; Site_2: NotI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACGAATCTGAAGTGGAGCGGCCCTTTTCTTTTCTTTTCTTTTCTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
[GTTGGATTGGTACC], digested with Not I and cloned into
the Not I and Eco RI sites of the modified pF7T3 vector.
Library constructed by Bob Barstead."

BASE COUNT 146 a 98 c 134 g 138 t

Query Match 43.4%; Score 151.4; DB 9; Length 516;
Best Local Similarity 77.6%; Pred. No. 1.1e-34;
Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;

QY 88 ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGGAGTACNGACGGTACTCTTGGG 147

Db 229 AAGGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGGAAATACAGACAATACTCTTGGG 288

QY 148 ACAGACCTTTTNGAGAAATNTGCATGGCTGANGGGTTNAACTGACTCTCGATACCAT 207

Db 289 ACAGAAATCTCTTGGGAGAAATAAG-TTGGCTGAAGGGTTGAACTGACTCTTGATACCAT 347

QY 208 ATTTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGGCTCCTATTGCCNGNAT 267

Db 348 ATTTGTACCAACACACAGGAA--AGAAGAGTGGGAAATTAAGGCTCCTATAGACGGGAT 405

QY 268 TGNTNNANTCTCGGCAGTAATGTTGATNTNNATTTTCTGGACCGACCATCTATGGCT-G 326

Db 406 TGTTTTAGTCTCGGCAGTAATGTTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 465

QY 327 TCTGNNTTGGCCTTTGAAGGTTG 349

Db 466 GCTGTGTTGGCCTTTGAAGGTTG 488

RESULT 7
BE625196 543 bp mRNA linear EST 24-AUG-2000
LOCUS uu2e07.y1 Soares_mammary_gland_NMLMG Mus musculus cDNA clone
DEFINITION IMAGE:3372708 5' similar to SW:POR3_MOUSE Q60931 VOLTAGE-DEPENDENT
ANION-SELECTIVE CHANNEL PROTEIN 3 ;, mRNA sequence.

ACCESSION BE625196
VERSION BE625196.1 GI:9905612
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 543)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:1082312

Seq primer: -40RP from Gibco
High quality sequence stop: 476.

FEATURES
source Location/Qualifiers
1. .543
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:3372708"
/clone_lib="Soares_mammary_gland_NMLMG"

is normalized, and was constructed and donated by Bento Soares and M.Fatima Bonaldo (University of Iowa) and R. Hardisty, A. Varela-Carver, P. Mburu and S.D.M. Brown (MRC UK Mouse Genome Centre and Mammalian Genetics Unit, Harwell, UK)."

```
BASE COUNT      181 a      128 c      145 g      158 t
ORIGIN

Query Match      43.4%; Score 151.4; DB 9; Length 612;
Best Local Similarity 77.6%; Pred. No. 1.2e-34;
Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;

QY 88 ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGGAGTACNGACGGTACTCTTGGG 147
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 22 AAGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGAATACAGACAATACTCTTGGG 81

QY 148 ACAGACCTTTTTTNGAGAAATNTGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT 207
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 82 ACAGAAATCTCTTGGGAGATAAG-TTGGCTGAAGGGTTGAAACTGACTCTTGATACCAT 140

QY 208 ATTTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGGCCCTCCTATTGCCNGNAT 267
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 141 ATTTGTACCAACACAGGAA--AGAAGAGTGGGAAATTAAAGGCCCTCCTATAGACGGGAT 198

QY 268 TGNNTNANTCTCGGCAGTAATGTTGATNTNNAATTTTCTGGACCGACCATCTATGGCT-G 326
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 199 TGTTTAGTCTCGGCAGTAATGTTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 258

QY 327 TCTGNNTTGGCCCTTTGAAGGTTG 349
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 259 GCTGTGTTGGCCTTTGAAGGTTG 281
```

```
RESULT 14
AW742230
LOCUS
DEFINITION up54a09.y1 Soares_mouse_NMIE Mus musculus cDNA clone IMAGE:2779864
5' similar to SW:POR3_MOUSE Q60931 VOLTAGE-DEPENDENT ANION-SELECTIVE CHANNEL PROTEIN 3 ;, mRNA sequence.
AW742230
ACCESSION AW742230.1 GI:7654015
VERSION
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 615)

NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>. National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Other_ESTs: up54a09.x1
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-re@mail.nih.gov
This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Seq primer: -40RP from Gibco
High quality sequence stop: 379.
Location/Qualifiers
1. .615

FEATURES
source
/organism="Mus musculus"
/strain="C3H x 101 (F1 stock)"
/db_xref="taxon:10090"
/clone="IMAGE:2779864"
/clone_lib="Soares_mouse_NMIE"
/sex="male"
/dev_stage="newborn"
/lab_host="DH10B"
/note="Organ: inner ear, 170 pooled; Vector: pT7T3D-Pac; Site.1: Not I; Site.2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAAGTGGAGCGCGGCACACTTTTTTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Eco RI adaptors

(Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized, and was constructed and donated by Bento Soares and M.Fatima Bonaldo (University of Iowa) and R. Hardisty, A. Varela-Carver, P. Mburu and S.D.M. Brown (MRC UK Mouse Genome Centre and Mammalian Genetics Unit, Harwell, UK)."

```
BASE COUNT      184 a      117 c      154 g      159 t      1 others
ORIGIN

Query Match      43.4%; Score 151.4; DB 9; Length 615;
Best Local Similarity 77.6%; Pred. No. 1.2e-34;
Matches 204; Conservative 0; Mismatches 55; Indels 4; Gaps 3;

QY 88 ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGGAGTACNGACGGTACTCTTGGG 147
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 100 AAGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGAATACAGACAATACTCTTGGG 159

QY 148 ACAGACCTTTTTTNGAGAAATNTGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT 207
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 160 ACAGAAATCTCTTGGGAGATAAG-TTGGCTGAAGGGTTGAAACTGACTCTTGATACCAT 218

QY 208 ATTTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGGCCCTCCTATTGCCNGNAT 267
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 219 ATTTCTACCAGACACAGGAA--AGAAGAGTGGGAAATTAAAGGCCCTCCTATAGACGGGAT 276

QY 268 TGNNTNANTCTCGGCAGTAATGTTGATNTNNAATTTTCTGGACCGACCATCTATGGCT-G 326
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 277 TGTTTAGTCTCGGCAGTAATGTTGATATAGATTTTCTGGACCGACCATCTATGGCTGG 336

QY 327 TCTGNNTTGGCCCTTTGAAGGTTG 349
    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 337 GCTGTGTTGGCCTTTGAAGGTTG 359
```

```
RESULT 15
BI683665
LOCUS
DEFINITION BI683665 603306204F1 NCI_CGAP_Mam6 Mus musculus cDNA clone IMAGE:5342257 5', mRNA sequence.
BI683665
ACCESSION BI683665.1 GI:15646293
VERSION
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
```

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 616)

NCI-MGC <http://mgc.nci.nih.gov/>. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-re@mail.nih.gov
Tissue procurement: Jeffrey Green M.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Plate: LLAM11869 row: h column: 02
High quality sequence stop: 614.
Location/Qualifiers
1. .616

FEATURES
source
/organism="Mus musculus"
/strain="FVB/N"
/db_xref="taxon:10090"
/clone="IMAGE:5342257"
/clone_lib="NCI_CGAP_Mam6"
/sex="female, virgin"
/tissue_type="infiltrating ductal carcinoma"
/dev_stage="5 months"
/lab_host="DH10B"

/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Jeffrey Green, M.D., NIH"

BASE COUNT	176 a	122 c	154 g	164 t	
ORIGIN					
Query Match	43.4%	Score 151.4;	DB 10;	Length 616;	
Best Local Similarity	77.6%	Pred. No. 1.2e-34;			
Matches 204;	Conservative 0;	Mismatches 55;	Indels 4;	Gaps 3;	
QY	88	ATGGGCTGCNACTATGGGCTCACCTTCACCCANANGNGGAGTACNGACGGTACTCTTGGG	147		
Db	214	AAGGTCTGCAACTATGGGCTCACCTTCACCCAAAAGTGGAAATACAGACAATACTCTTGGG	273		
QY	148	ACAGACCTTTTTCNGAGAAATNTGCATGGCTGANGGGTTNAAACTGACTCTCGATACCAT	207		
Db	274	ACAGAAATCTCTTGGGAGATAAG-TTGGCTGAAGGGTTGAAACTGACTCTTGATACCAT	332		
QY	208	ATTTNTACCATNCNCTCCNATCCTTTTAGTGCCATTTTCCCGGCCCTCCTATTGCCNGNAT	267		
Db	333	ATTTCTACCAAAACACACAGGAA--AGAAGAGTGGGAAATTAAAGGCCCTCCTATAGACGGGAT	390		
QY	268	TGNTNNANTCTCGGCAGTAATGTGATNTNNAATTTTCTGACCGACCATCTATGGCT-G	326		
Db	391	TGTTTATAGTCTCGGCAGTAATGTGATATAGATTTTCTGACCGACCATCTATGGCTGG	450		
QY	327	TCTGNNTTGGCCTTTGAAGGTTG	349		
Db	451	GCTGTGTGGCCTTTGAAGGTTG	473		

Search completed: October 23, 2002, 22:49:49
Job time : 1599 secs